Ex. No.: 1 **Date:** 27/9/24

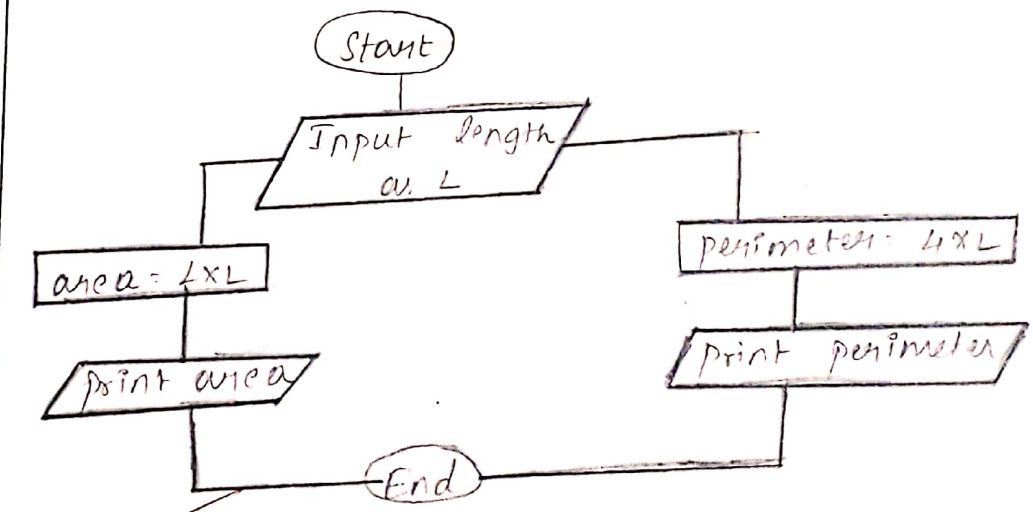
Calculate Area and Perimeter

Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

Algorithm:

step 1 : start
step 2 : Input side length as L
step 3 : Area = L * L = A
step 4 : perimeter = 4 * L = P
step 5 : print A
step 6 : print P
step 7 : stop

Flowchart:



PP2

Ex. No.: 2 **Date:** 27/9/24

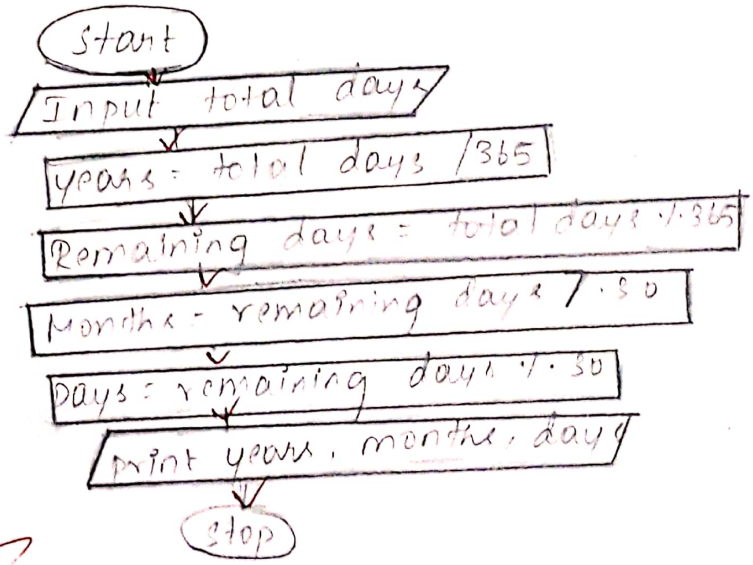
Days to Year Conversion

Write an Algorithm and draw a Flowchart to convert the given days into years & months.

Algorithm:

Step 1: Read the value for total days
Step 2: years = total days / 365
Step 3: Remaining days = total days %. 365
Step 4: Months = remaining days %. 30
Step 5: days = remaining days %. 30
Step 6: display years, months, days

Flowchart:



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Ex. No.: 3 **Date:** 18/10/24

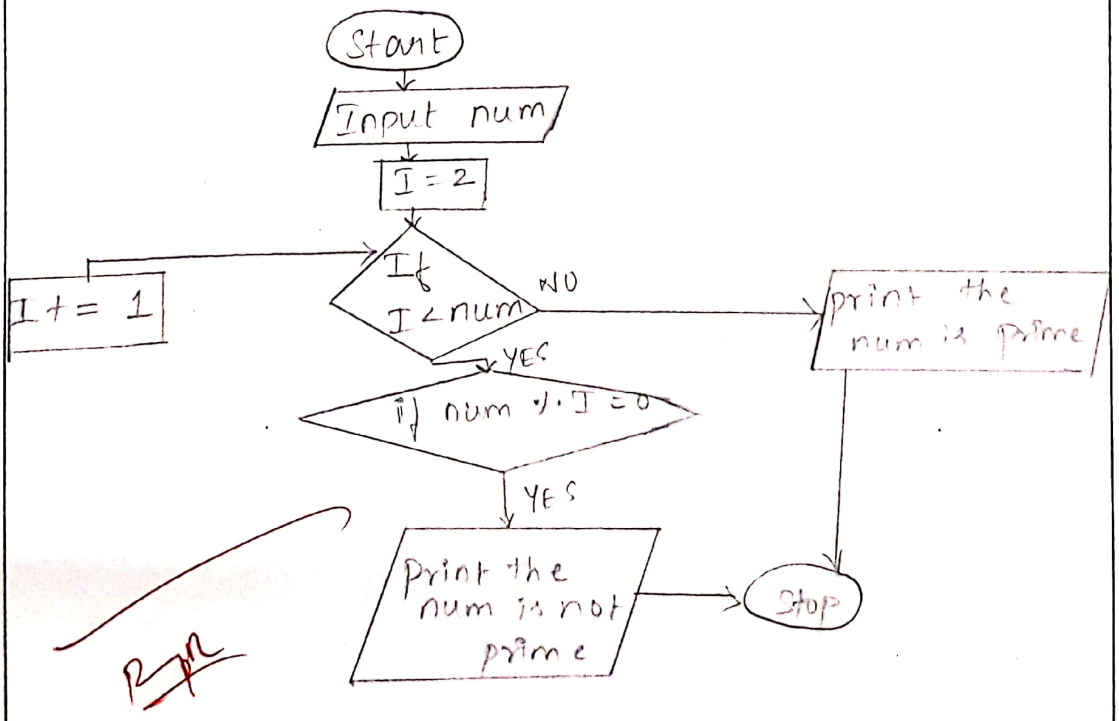
Prime Number

Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

Algorithm:

Step 1 : start
step 2 : Read the value of x
Step 3 : Divide x by the numbers between (2 & x-1)
Step 4 : If x is divided by any number between (2 & x-1) print x is not prime number
Step 5 : Else print x is prime number
step 6 : stop

Flowchart:



Ex. No.: 4 **Date:** 18/10/24

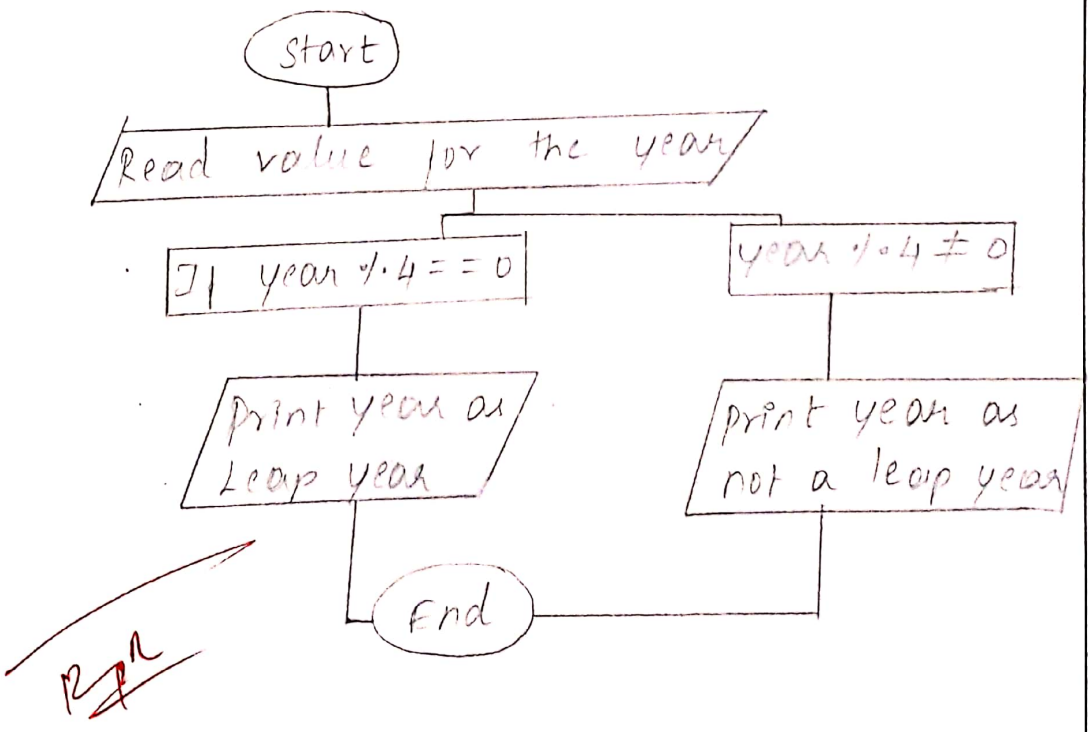
Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

Algorithm:

Step 1 : Start
step 2 : Read the value for the year
Step 3 : If year %.4 == 0
step 4: print year is leap year
step 5 : Else print year is not leap year
Step 6 : Stop

Flowchart:



Ex. No.: 5 **Date:** 18/10/24

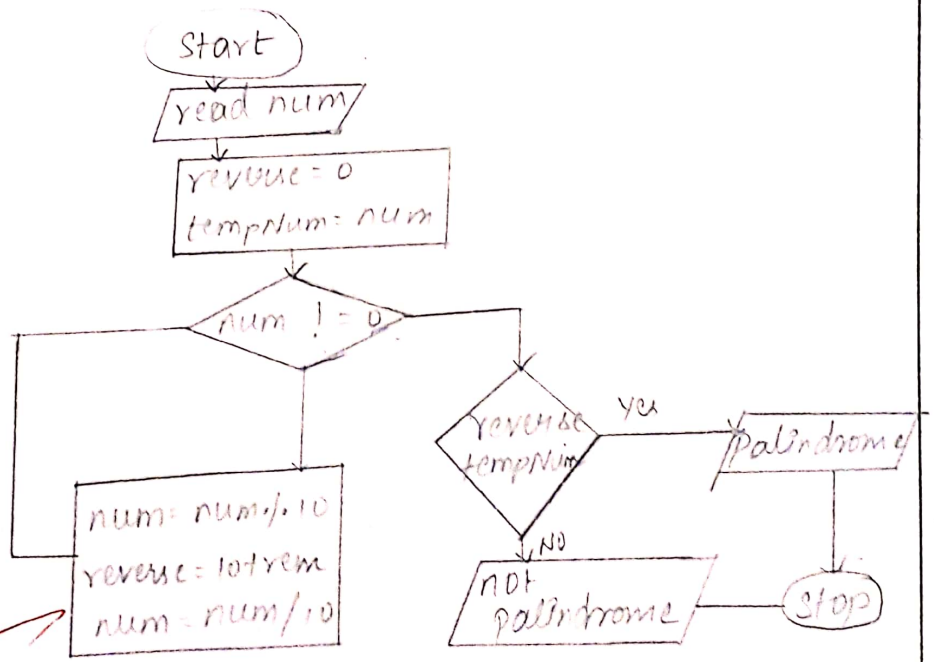
Palindrome Number

Write an Algorithm and draw a Flowchart to check whether the given number is palindrome number or not.

Algorithm:

Step 1 : Read num
step 2 : declare variable reverse & assign input to a tempnum = num
Step 3 : run loop until num != 0 becomes false
while num > 0
-> rem = num % 10
-> reverse = 10 * rem
-> num = num / 10
Step 4 : check reverse = tempnum
Step 5 : If step4 is true, print It is palindrome
else Print not a palindrome

Flowchart:



Ex. No.: 6 **Date:** 18/10/24

Sum of Digits

Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm:

step 1 : Read n
step 2 : Declare sum = 0
step 3 : Declare reminder = n % 10 & declare
sum = sum + reminder
n = n/10
step 4 : If (N > 0) then go to step 4, else
go to step 5
step 5 : print sum

Flowchart: